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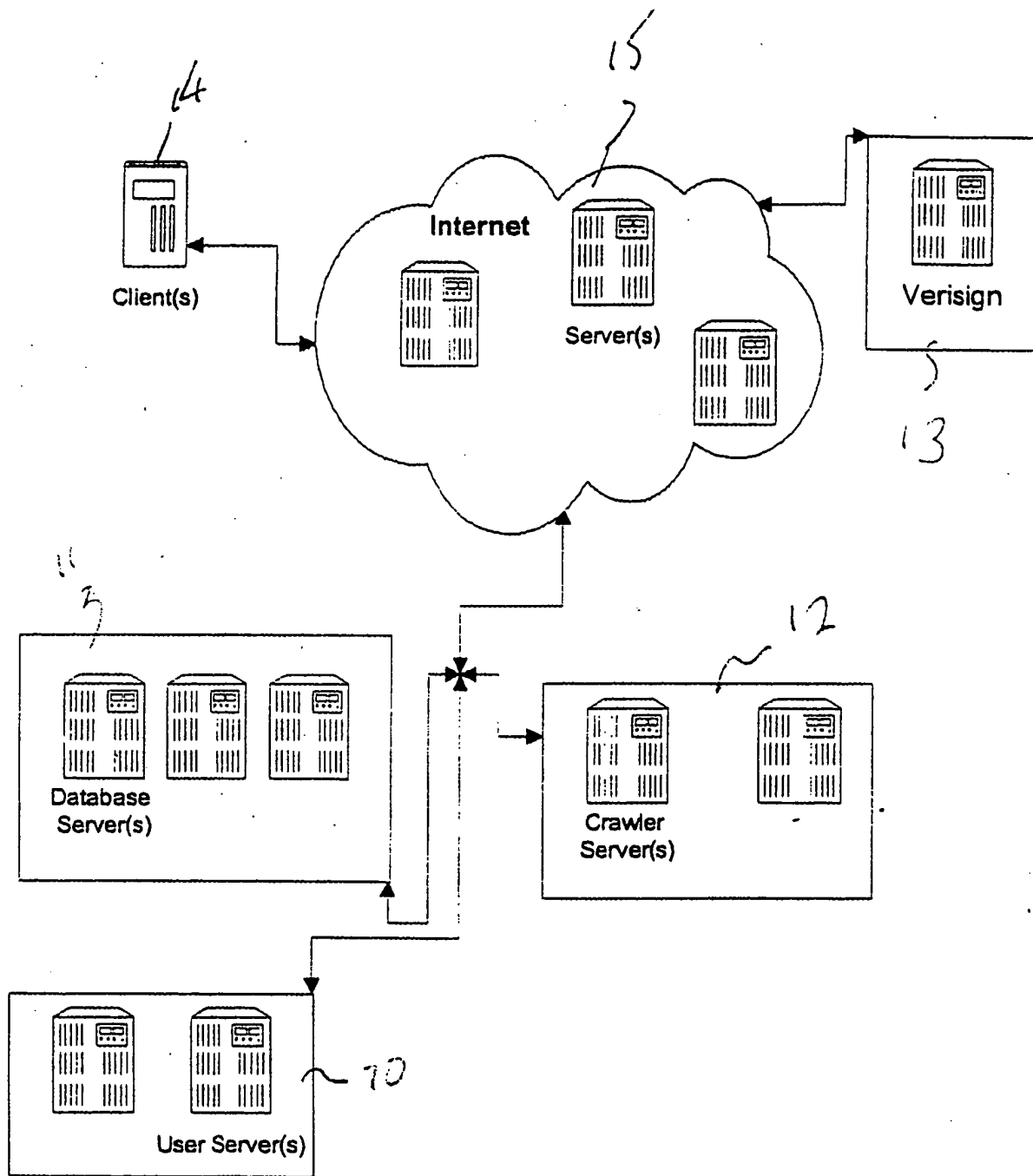


Figure 1

```
graph TD
    UI[User Interface]
    UD[User database]
    WD[Word Dictionary]
    SE((Search engine))
    C((Crawler))
    RD[Results Database]
    ISA[Indexed searches & archive]
    RE[Report Engine]
    I((Internet))

    UI -- 1 --> I
    I --> C
    C -- 5 --> SE
    SE -- 4 --> UI
    SE -- 2 --> UD
    UD -- 3 --> SE
    UD -- 6 --> RD
    RD -- 7 --> ISA
    ISA -- 8 --> RE
    RE --> UI
    RE --> UD
    RE --> I
```

The diagram illustrates the architecture of a search engine system. The components and their interactions are as follows:

- User Interface** (1): The entry point for user requests.
- User database** (3): Stores user-related information.
- Word Dictionary** (2): Provides linguistic data for search processing.
- Search engine** (4): The core component that processes queries and returns results.
- Crawler** (5): A program that systematically browses the Internet to find new documents.
- Results Database** (6): Stores the results of searches.
- Indexed searches & archive** (7): Stores the indexed data and search results.
- Report Engine** (8): Generates reports based on the search results.
- Internet**: The global network of computers and servers.

The flow of data and control is indicated by numbered arrows:

- 1: User Interface to Internet
- 2: Search engine to User database
- 3: User database to Search engine
- 4: Search engine to User Interface
- 5: Crawler to Search engine
- 6: User database to Results Database
- 7: Results Database to Indexed searches & archive
- 8: Indexed searches & archive to Report Engine

## Figure 2

This MARKmonitor™ service allows you to search for your trademark, tradename or name on up to ten search engines and receive up to 500 results per search engine.

Search Criteria	
Search Terms:	<input type="text" value="markfamus"/>
Results per Search Engine:	<input type="text" value="10"/>
Client ID / Description:	<input type="text" value="xyz"/>
How often should this report be run?:	<input type="text" value="Only Once"/>
Search Engines to Use	
<input checked="" type="checkbox"/> Alta Vista	<input type="checkbox"/> Excite
<input checked="" type="checkbox"/> Infoseek	<input type="checkbox"/> Lycos
<input type="checkbox"/> Northern Light	<input type="checkbox"/> Yahoo
<input type="checkbox"/> Hotbot	<input type="checkbox"/> LookSmart
<input type="checkbox"/> Snap	<input type="checkbox"/> GoTo
<input type="button" value="Submit"/>	

FIG. 3A

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**AltaVista Results**

Rank	Hits	URL	Analyze Site	Meta Tag	Hidden Text	Text Title
1	7	<a href="http://www.markfamusworld.com/index2.html">http://www.markfamusworld.com/index2.html</a>	eSITEmonitor	5	1	0 1
2	0	<a href="http://www.markfamus.co.jp/">http://www.markfamus.co.jp/</a>	eSITEmonitor	0	0	0 0
3	8	<a href="http://www.markfamus.ru/">http://www.markfamus.ru/</a>	eSITEmonitor	0	2	5 1
4	17	<a href="http://www.markfamusnorcal.com/">http://www.markfamusnorcal.com/</a>	eSITEmonitor	6	6	3 2
5	1	<a href="http://www.markfamus.be/">http://www.markfamus.be/</a>	eSITEmonitor	0	0	0 1
6	47	<a href="http://www.markfamus.co.uk/servlet/markfamus">http://www.markfamus.co.uk/servlet/markfamus</a>	eSITEmonitor	0	25	21 1
7	15	<a href="http://www.markfamus.com/whiete/markfamus.html">http://www.markfamus.com/whiete/markfamus.html</a>	eSITEmonitor	0	0	14 1
8	0	<a href="http://www.markfamusrhouse.com/">http://www.markfamusrhouse.com/</a>	eSITEmonitor	0	0	0 0
9	5	<a href="http://www.markfamous.com/markfamus.htm">http://www.markfamous.com/markfamus.htm</a>	eSITEmonitor	2	0	0 3
10	2	<a href="http://www.markfamusknife.com/">http://www.markfamusknife.com/</a>	eSITEmonitor	0	1	0 1

**FIG. 3B****Infoseek Results**

Rank	Hits	URL	Analyze Site	Meta Tag	Hidden Text	Text Title
1	1	<a href="http://www.markfamusco.com/">http://www.markfamusco.com/</a>	eSITEmonitor	0	0	0 1
2	1	<a href="http://www.markfamus.com.au/">http://www.markfamus.com.au/</a>	eSITEmonitor	0	0	0 1
3	9	<a href="http://www.markfamusarena.com/">http://www.markfamusarena.com/</a>	eSITEmonitor	1	0	7 1
4	18	<a href="http://www.markfamus.com/famousname/">http://www.markfamus.com/famousname/</a>	eSITEmonitor	4	2	11 1
5	0	<a href="http://www.markfamusmenace.com/">http://www.markfamusmenace.com/</a>	eSITEmonitor	0	0	0 0
6	10	<a href="http://www.markfamus.net/~markfamus/index.html">http://www.markfamus.net/~markfamus/index.html</a>	eSITEmonitor	0	1	8 1
7	0	<a href="http://www.markfamus.com/">http://www.markfamus.com/</a>	eSITEmonitor	0	0	0 0
8	0	<a href="http://147.8.1891.30:1234/project64.html">http://147.8.1891.30:1234/project64.html</a>	eSITEmonitor	0	0	0 0
9	15	<a href="http://www.markfamus.com/features/">http://www.markfamus.com/features/</a>	eSITEmonitor	1	0	14 0
10	1	<a href="http://429.8.1041.30:1234/project25.html">http://429.8.1041.30:1234/project25.html</a>	eSITEmonitor	0	1	0 0

**FIG. 3C**

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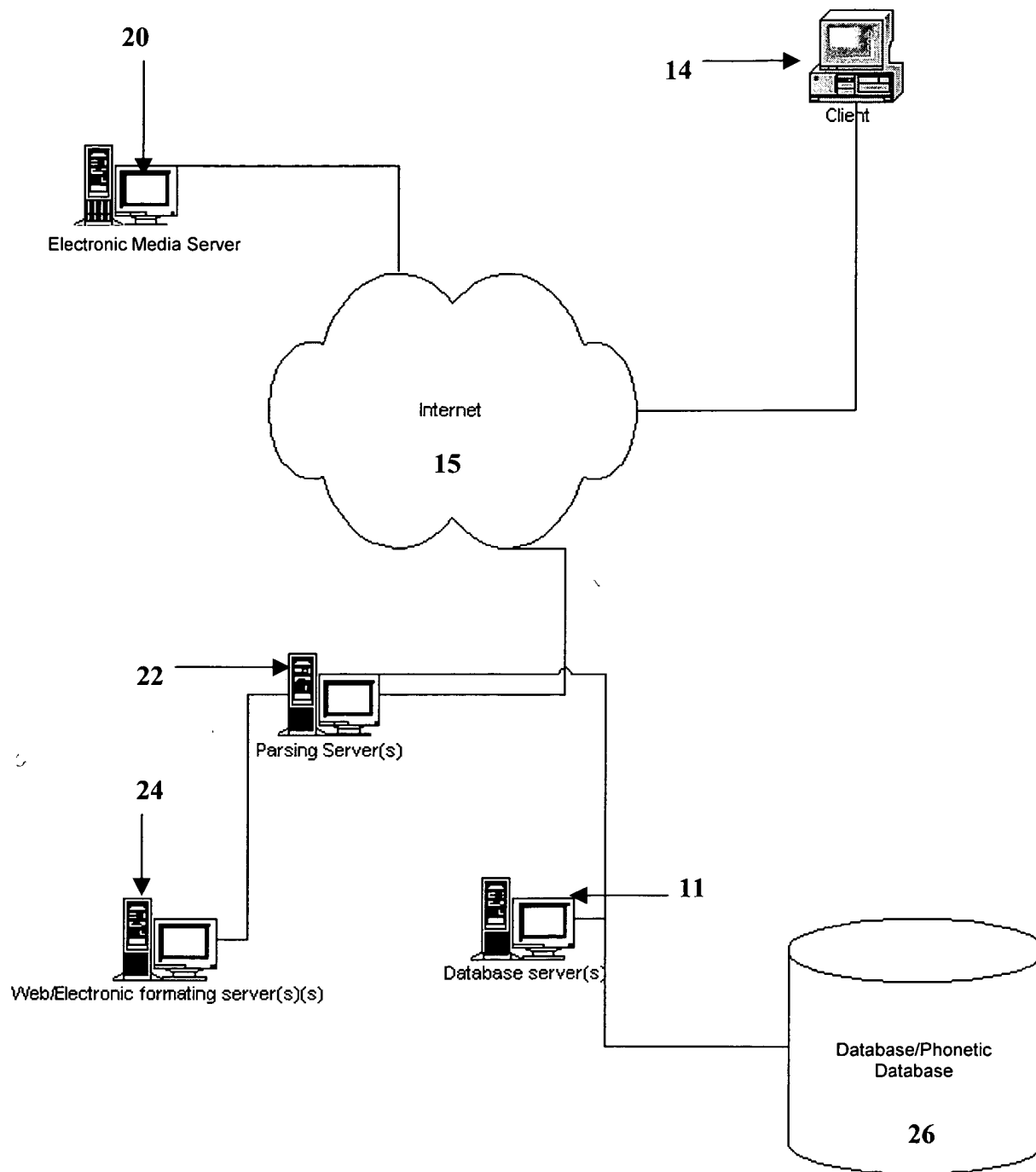
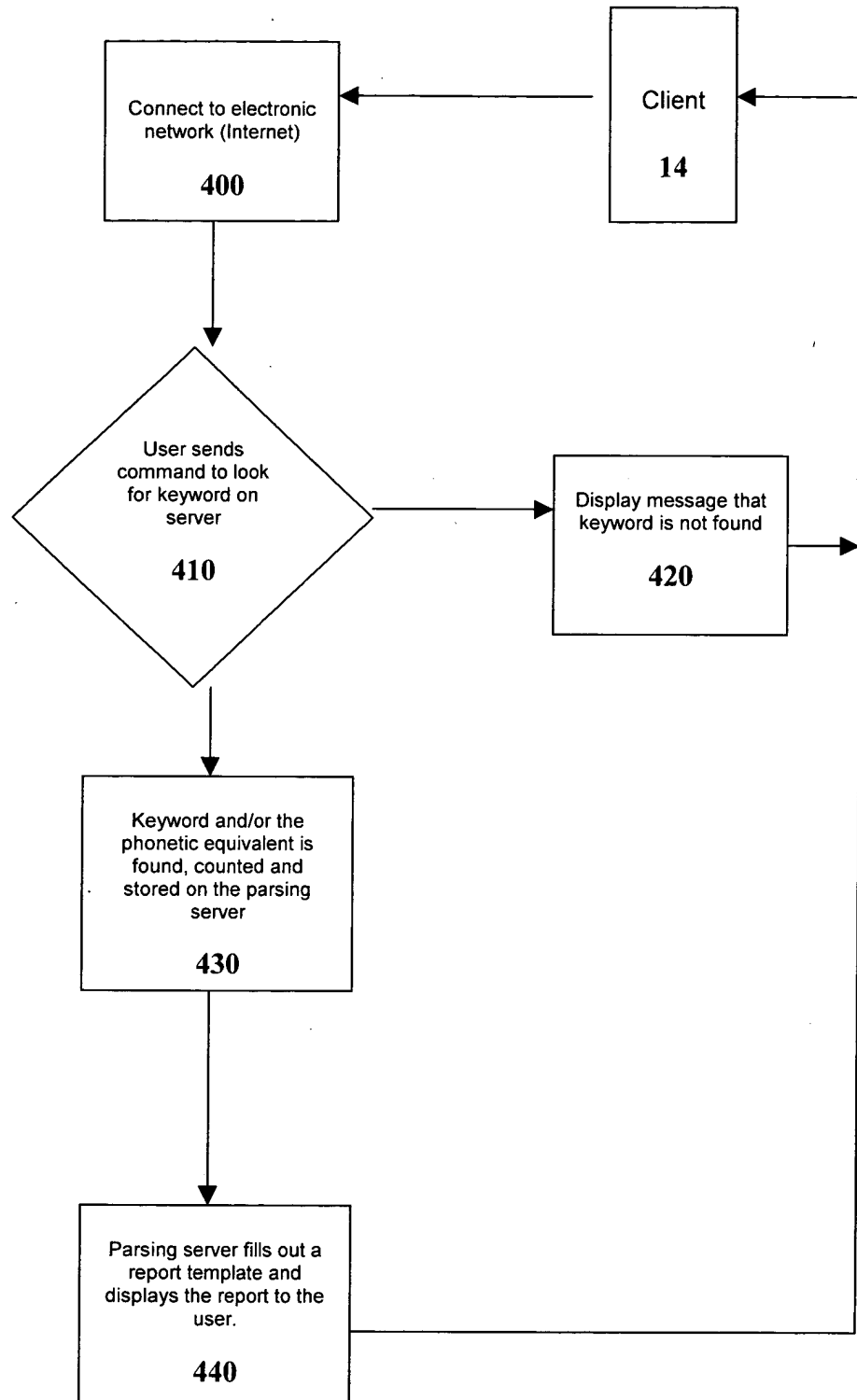


FIG. 4

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**FIG. 5**